

Exhibit A

Clean Version of The Pending Claims in U.S. Patent Application Ser. No. 09/916,122

1. (Previously Presented) An isolated nucleic acid molecule comprising a nucleotide sequence that encodes the amino acid sequence of SEQ ID NO:2.
2. (Previously Presented) An isolated nucleic acid expression vector comprising a nucleotide sequence encoding the amino acid sequence of SEQ ID NO: 2, said vector having the property of being capable of expressing the amino acid sequence of SEQ ID NO: 2 when present in a suitable host cell.
3. (Previously Presented) The isolated nucleic acid molecule of claim 1, wherein said nucleotide sequence comprises the sequence of SEQ ID NO:1.
4. (Previously Presented) The isolated nucleic acid expression vector of claim 2, wherein said nucleotide sequence comprises the sequence of SEQ ID NO:1.
5. (Previously Presented) A host cell comprising the expression vector of claim 2.

>XM_291808 ACCESSION:XM_291808 NID: gi 29743652 ref XM_291808.1
Homo sapiens similar to olfactory receptor MOR40-13 [Mus
musculus] (LOC340982), mRNA
Length = 975

Score = 644 bits (1643), Expect = 0.0
Identities = 324/324 (100%), Positives = 324/324 (100%)
Frame = +1

Query: 1 MNHMSASLKISNSSKFQVSEFILLGFPPIHSWQHWSLPLALLYLSALAANTLILIIIWQ 60
MNHMSASLKISNSSKFQVSEFILLGFPPIHSWQHWSLPLALLYLSALAANTLILIIIWQ
Sbjct: 1 MNHMSASLKISNSSKFQVSEFILLGFPPIHSWQHWSLPLALLYLSALAANTLILIIIWQ 180

Query: 61 NPSLQQPMYIFLGILCMVDMGLATTIIPKILAIWFWDKVISLPERFAQIYAIHFFVGME 120
NPSLQQPMYIFLGILCMVDMGLATTIIPKILAIWFWDKVISLPERFAQIYAIHFFVGME
Sbjct: 181 NPSLQQPMYIFLGILCMVDMGLATTIIPKILAIWFWDKVISLPERFAQIYAIHFFVGME 360

Query: 121 SGILLCMAFDRTVAICHPLFYPSIVTSSLILKATLFMVLENGLEFVTPVPVLAAQRDYCSK 180
SGILLCMAFDRTVAICHPLFYPSIVTSSLILKATLFMVLENGLEFVTPVPVLAAQRDYCSK
Sbjct: 361 SGILLCMAFDRTVAICHPLFYPSIVTSSLILKATLFMVLENGLEFVTPVPVLAAQRDYCSK 540

Query: 181 NEIEHCLCSNLGVTSLACDDRRPNSICQLVLAWLGMGSDLSLIILSYILILYSVLRRLNSA 240
NEIEHCLCSNLGVTSLACDDRRPNSICQLVLAWLGMGSDLSLIILSYILILYSVLRRLNSA
Sbjct: 541 NEIEHCLCSNLGVTSLACDDRRPNSICQLVLAWLGMGSDLSLIILSYILILYSVLRRLNSA 720

Query: 241 EAAAFALSTCSSHLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVY 300
EAAAFALSTCSSHLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVY
Sbjct: 721 EAAAFALSTCSSHLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVY 900

Query: 301 ALQTHELRAAFQKVLFAITHEIFS 324
ALQTHELRAAFQKVLFAITHEIFS
Sbjct: 901 ALQTHELRAAFQKVLFAITHEIFS 972

>XM_062282 ACCESSION:XM_062282 MID: gi 29746563 ref XM_062282.7
Homo sapiens similar to olfactory receptor MOR40-13 [Mus
musculus] (LOC120806), mRNA
Length = 975

Score = 641 bits (1635), Expect = 0.0
Identities = 323/324 (99%), Positives = 323/324 (99%)
Frame = +1

Query: 1 MNHMSASLKHISNSSKFPQVSEFILLGFPQIHSWQHWSLPLALLYLSALAANTLILIIIWQ 60
MNHMSASLKHISNSSKFPQVSEFILLGFPQIHSWQHWSLPLALLYLSALAANTLILIIIWQ
Sbjct: 1 MNHMSASLKHISNSSKFPQVSEFILLGFPQIHSWQHWSLPLALLYLSALAANTLILIIIWQ 180

Query: 61 NPSLQQPMYIFLGILCMVDMGLATTIIPKILAIFWFDKVISLPERFAQIYAIHFFVGME 120
NPSLQQPMYIFLGILCMVDMGLATTIIPKILAIFWFDKVISLPE FAQIYAIHFFVGME
Sbjct: 181 NPSLQQPMYIFLGILCMVDMGLATTIIPKILAIFWFDKVISLPECFAQIYAIHFFVGME 360

Query: 121 SGILLCMAFDRYVAICHPLRYPSIVTSSLILKATLFMVLENGLFVTPVPVLAAQRDYCSK 180
SGILLCMAFDRYVAICHPLRYPSIVTSSLILKATLFMVLENGLFVTPVPVLAAQRDYCSK
Sbjct: 361 SGILLCMAFDRYVAICHPLRYPSIVTSSLILKATLFMVLENGLFVTPVPVLAAQRDYCSK 540

Query: 181 NEIEHCLCSNLGVTSLACDDRRPNSICQLVLAWLGMGSDLSLIILSYILILYSVLRNSA 240
NEIEHCLCSNLGVTSLACDDRRPNSICQLVLAWLGMGSDLSLIILSYILILYSVLRNSA
Sbjct: 541 NEIEHCLCSNLGVTSLACDDRRPNSICQLVLAWLGMGSDLSLIILSYILILYSVLRNSA 720

Query: 241 EAAAKALSTCSSHLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVY 300
EAAAKALSTCSSHLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVY
Sbjct: 721 EAAAKALSTCSSHLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVY 900

Query: 301 ALQTHELRAAFQKVLFAITHEIRS 324
ALQTHELRAAFQKVLFAITHEIRS
Sbjct: 901 ALQTHELRAAFQKVLFAITHEIRS 972

>AB065812 ACCESSION:AB065812 NID: gi 21928889 dbj AB065812.1 Homo
sapiens gene for seven transmembrane helix receptor,
complete cds, isolate:CBRC7TM_375
Length = 1366

Score = 641 bits (1635), Expect = 0.0
Identities = 323/324 (99%), Positives = 323/324 (99%)
Frame = +3

Query: 1 MNHMSASLKHISNSSKFQVSEFILLGFPGIHSWQHWSLPLALLYLSALAANTLILIIIWQ 60
MNHMSASLKHISNSSKFQVSEFILLGFPGIHSWQHWSLPLALLYLSALAANTLILIIIWQ
Sbjct: 192 MNHMSASLKHISNSSKFQVSEFILLGFPGIHSWQHWSLPLALLYLSALAANTLILIIIWQ 371

Query: 61 NPSLQQPMYIFLGILCMVDMGLATTIIPKILAIWFWDKVISLPERFAQIYAIHFFVGME 120
NPSLQQPMYIFLGILCMVDMGLATTIIPKILAIWFWDKVISLPE FAQIYAIHFFVGME
Sbjct: 372 NPSLQQPMYIFLGILCMVDMGLATTIIPKILAIWFWDKVISLPECFAQIYAIHFFVGME 551

Query: 121 SGILLCMAFDRIVAICHPLFYPSIIVTSSLILKATLFMVLENGLFVTPVPVLAAQRDYCSK 180
SGILLCMAFDRIVAICHPLFYPSIIVTSSLILKATLFMVLENGLFVTPVPVLAAQRDYCSK
Sbjct: 552 SGILLCMAFDRIVAICHPLFYPSIIVTSSLILKATLFMVLENGLFVTPVPVLAAQRDYCSK 731

Query: 181 NEIEHCLCSNLGVTSACDDERPNSICQLVLAWLGMGSDLSLIILSYILILYSVLRNSA 240
NEIEHCLCSNLGVTSACDDERPNSICQLVLAWLGMGSDLSLIILSYILILYSVLRNSA
Sbjct: 732 NEIEHCLCSNLGVTSACDDERPNSICQLVLAWLGMGSDLSLIILSYILILYSVLRNSA 911

Query: 241 EAAAKALSTCSSHLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVY 300
EAAAKALSTCSSHLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVY
Sbjct: 912 EAAAKALSTCSSHLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVY 1091

Query: 301 ALQTKELRAAFQKVLFALTKEIRS 324
ALQTKELRAAFQKVLFALTKEIRS
Sbjct: 1092ALQTKELRAAFQKVLFALTKEIRS 1163

>NM_146312 ACCESSION:NM_146312 NID: gi 22129666 ref NM_146312.1 Mus
musculus olfactory receptor MOR40-13 (MOR40-13), mRNA
Length = 960

Score = 531 bits (1355), Expect = e-149
Identities = 264/312 (84%), Positives = 286/312 (91%)
Frame = +1

Query: 4 MSASLKISNSSKQVSEFILLGFPPIHSWQHWSLPLALLYLSALAANTLILIIWQNPS 63
MSASLK NSSK QVSEFILLGFPPIHSWQHWSLP LLYLSA+ N LILIII Q+PS
Sbjct: 1 MSASLKAFNSSKSQVSEFILLGFPPIHSWQHWSLPFTLLYLSAIGTNVLILIIICQDPS 180

Query: 64 LQQPMYIFLGILCMVDMGLATTIIPKILAIWFDAKVISLPERFAQIYAIHFFVGMESGI 123
L+QPMY+FLGIL +VDMGLATTI+PKILAIWFDAKVISLPE FAQIYAIH FVGMESGI
Sbjct: 181 LQQPMYIFLGILSVDMGLATTIMPKILAIWFDAKVISLPECFAQIYAIHCFVGMESGI 360

Query: 124 LLCMAFDREYVAICHPLRYPSIVTSSLIILKATLFMVLRNGLFVTPVPVLAAQRDYCSKNEI 183
LCMAFDREYVAIC+PLRY SI+T+SLIILKATLFMVLRNGL V PVPVLAAQR+YCS+NEI
Sbjct: 361 FLCMAFDREYVAICYPLRYSSIITNSLIILKATLFMVLRNGLCVIPVPVLAAQRNYCSKNEI 540

Query: 184 EHCLCSNLDVNTSLACDDREFPNSIQQLVLAWLGMGSDLSLIILSYILILSVLRLNSAEAA 243
+HCLCSNLDVNTSLACDDREFPNSIQQL+LAW+GMGSDL LIILSY LIL SVLRLNSAEA
Sbjct: 541 DHCLCSNLDVNTSLACDDREFPNSIQQLILAWVGMGSDLGLIILSYTLILRSVLRLNSAEAV 720

Query: 244 AKALSTCSSHLLTLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVYALQ 303
+KAL+TCSNHL LILFFYT+VVVISVTHL+E KATLIPVLLNV+HNI PPSLNP VYAL+
Sbjct: 721 SKALNTCSSHLLTLILFFYTIVVVISVTHLSETKATLIPVLLNVMHNITPPSLNPVYALR 900

Query: 304 TKELRAAFQKVL 315
T++LR FQKVL
Sbjct: 901 TRQLRQGFQKVL 936

>AY073781 ACCESSION:AY073781 NID: gi 18490859 gb AY073781.1 Mus
musculus olfactory receptor MOR40-13 gene, complete cds
Length = 960

Score = 532 bits (1355), Expect = e-149
Identities = 264/312 (84%), Positives = 286/312 (91%)
Frame = +1

Query: 4 MSASLKISNSSKFQVSEFILLGFPFGIHSWQHWSLPLALLYLSALAANTLILIIWQNPS 63
MSASLK NSSK QVSEFILLGFPFGIHSWQHWSLPL LLYLSA+ N LILIII Q+PS
Sbjct: 1 MSASLKAFNSSKSQVSEFILLGFPFGIHSWQHWSLPLFTLLYLSAIGTNVLILIIICQDPS 180

Query: 64 LQQPMYIFLGLICMVDMLATTIIPKILAIWFDAKVISLPERFAQIYAIHFFVGMESGI 123
L+QPMY+FLGIL -VDMGLATTI+PKILAIWFDAKVISLPE FAQIYAIH FVGMESGI
Sbjct: 181 LQQPMYLFGLILSVDMGLATTIMPKILAIWFDAKVISLPECFAQIYAIHCFVGMESGI 360

Query: 124 LDCMAFDRIYVAICHPLRYPSIVTSSILKATLFMVLRNGLFVTPVPVLAAQRDYCSKNEI 183
LDCMAFDRIYVAIC+PLRY SI+T+SLILKATLFMVLRNGL V FVPVLAAQR+YCS+NEI
Sbjct: 361 FDCMAFDRIYVAICYPLEYSSIITNSILKATLFMVLRNGLCVIPVPVLAAQRNYCSRNEI 540

Query: 184 EHCLCSNLGVTSACDDRRPNSICQLVLAWLGMGSDL SLIILSYILILYSVLRNLNSAEAA 243
+HCLCSNLGVTSACDDRRPNSICQL+LAW+GMGSDL LIILSY LIL SVLRNLNSAEA
Sbjct: 541 DHCLCSNLGVTSACDDRRPNSICQLILAWVGMGSDLGLIILSYTLILRSVLRNLNSAEAV 720

Query: 244 AKALSTCSSHLLILFFYTIVVVISVTHLTEMKATLIPVLLNVLHNIIPPSLNPTVYALQ 303
+KAL+TCSSHL LILFFYT+VVVISVTHL+E KATLIPVLLNV+HNI PPSLNP VYAL+
Sbjct: 721 SKALNTCSSHLLILILFFYTIVVVISVTHLSETKATLIPVLLNVMHNITPPSLNPVYALR 900

Query: 304 TKELRAAFQKVL 315
T++LR FQKVL
Sbjct: 901 TRQLRQGFQKVL 936